**VBA Script**

Sub Stock\_Analysis ()

' Define the variables that will be used

Dim Ticker As String

Dim Volume\_Total As Double

Volume\_Total = 0

Dim Open\_Amt As Double

Open\_Amt = Cells(2, 3).Value

Dim Close\_Amt As Double

Close\_Amt = 0

Dim Yearly\_Change As Double

Yearly\_Change = 0

Dim Percent\_Change As Double

Percent\_Change = 0

Dim Summary\_Table\_Row As Long

Summary\_Table\_Row = 2

Dim Lastrow As Long

Lastrow = Cells(Rows.Count, 1).End(xlUp).Row

' Label headers for the summary tables

Range("K1”) = "Ticker"

Range("L1") = "Yearly Change"

Range("M1") = "Percent Change"

Range("N1") = "Total Stock Volume"

' Create loop to go through all the Tickers to find the required info

For i = 2 To Lastrow

' Create if-then statement to check and see if we are still in the same Ticker and set parameters based on that

If Cells(i + 1, 1).Value <> Cells(i, 1).Value Then

' If the Tickers are not equal, then the following values will be true

Ticker = Cells(i, 1).Value

Close\_Amt = Cells(i, 6).Value

Yearly\_Change = Close\_Amt - Open\_Amt

' Print variables into the appropriate cells

Range("K" & Summary\_Table\_Row).Value = Ticker

Range("L" & Summary\_Table\_Row).Value = Yearly\_Change

' If Yearly Change is greater than zero, set the color to green

If Yearly\_Change > "0" Then

Range("L" & Summary\_Table\_Row).Interior.ColorIndex = 4

' If Yearly Change is less than or equal to zero, set the color to red

ElseIf Yearly\_Change <= "0" Then

Range("L" & Summary\_Table\_Row).Interior.ColorIndex = 3

End If

' Create another if-then statement to get the Percent Change and make sure to account for the zero division possible error

If Open\_Amt <> 0 Then

Percent\_Change = (Yearly\_Change / Open\_Amt) \* 100

' Print variables into cells and format the Percent Change to show numbers as a percent

Range("M" & Summary\_Table\_Row).Value = Percent\_Change

Range("M" & Summary\_Table\_Row).NumberFormat = "0.00\%"

' If the open amount is equal to zero, then Percent Change will be zero because you cannot divide by zero

Else

Percent\_Change = 0

End If

' Obtain Volume Total by Ticker name since we need to account for the last volume amount before Ticker changes to next Ticker

Volume\_Total = Volume\_Total + Cells(i, 7).Value

' Print the Volume Total into the appropriate cells

Range("N" & Summary\_Table\_Row).Value = Volume\_Total

' Add 1 to the Summary Table Row so that the correct variable is in the correct cell for the next iteration

Summary\_Table\_Row = Summary\_Table\_Row + 1

' Re-set to zero for next iteration

Yearly\_Change = 0

Percent\_Change = 0

Close\_Amt = 0

Volume\_Total = 0

' Get Open Amount for next Ticker

Open\_Amt = Cells(i + 1, 3).Value

' If the Ticker value is equal, then the Volume Total would be 0 plus the Volume Total numbers associated with the first Ticker

Else

Volume\_Total = Volume\_Total + Cells(i, 7).Value

' Need to end this statement

End If

' Need to end the loop

Next i

' Format cells to autofit in the worksheet so that data is readable and looks clean

Cells.EntireColumn.AutoFit

' Must end the function

End Sub